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LIST OF SUBJECTS

1 METHODS

1.1 Theoretical

1.1.1 Group theory and algebras
1.1.2 Classical mechanics
1.1.3 Quantized field theory
1.1.4 Many body and quasiparticle approaches *
1.1.5 Coupling schemes and perturbative treatments *
1.1.6 Relativistic quantum mechanics *
1.1.7 Transport quantum mechanics
1.1.8 Equilibrium statistical mechanics
1.1.9 Statistical mechanics of stationary states *
1.1.10 Non-equilibrium thermodynamic and hydrodynamic theories
1.1.11 Ab initio schemes for stationary properties *
1.1.12 Computational and simulation methods *
1.1.13 Molecular dynamics and scattering theory *

1.2 Experimental

1.2.1 Magnetic resonances
1.2.2 Cyclotron resonance
1.2.3 Microwave spectroscopy
1.2.4 Infrared spectroscopy *
1.2.5 Raman spectroscopy *
1.2.6 Visible and UV spectroscopy *
1.2.7 Fluorescence spectroscopy *
1.2.8 Photoelectron and Auger spectroscopy *
1.2.9 X-ray spectroscopy
1.2.10 Electron impact spectroscopy *
1.2.11 Laser methods *
1.2.12 Picosecond spectroscopy *
1.2.13 Non-linear optical spectroscopy *
1.2.14 Synchrotron spectroscopies *
1.2.15 Coherent optical spectroscopy *
1.2.16 Optical pumping *
1.2.17 Multiple resonance spectroscopy
1.2.18 Optoacoustic spectroscopy
1.2.19 Atomic and molecular beam techniques *
1.2.20 Time-resolved experiments *
1.2.21 Mass spectrometry *
1.2.22 Radiolysis
1.2.23 Mössbauer spectroscopy
1.2.24 X-ray, electron and neutron diffraction
1.2.25 Neutron scattering
1.2.26 Light scattering
1.2.27 Field emission and field ionization
1.2.28 Measurement of macroscopic variables

2 OBJECTS

2.1 Bulk systems

2.1.1 Gases *
2.1.2 Supersonic beams *
2.1.3 Liquids neat *
2.1.4 Liquid mixtures and solutions *
2.1.5 Crystals *
2.1.5.1 neat *
2.1.5.2 mixed *
2.1.6 Glasses
2.1.7 Liquid crystals
2.1.8 Polymers *
2.1.9 Semiconductors
2.1.10 Metals and alloys
2.1.11 Thin films *
2.1.12 Surfaces *
2.1.13 Low-dimensional materials
2.1.14 Dielectrics *
2.1.15 Plasmas *
2.1.16 Biological systems

2.2 Microscopic systems

2.2.1 Atoms *
2.2.2 Molecules (neutral and ionic) *
2.2.2.1 diatomic *
2.2.2.2 small polyatomics *
2.2.2.3 aromatics *
2.2.2.4 other large *
2.2.2.5 polymeric and biological *
2.2.3 Molecular aggregates *
2.2.3.1 dimers *
2.2.3.2 van der Waals molecules
2.2.3.3 clusters *
2.2.3.4 complexes *
2.2.4 Free radicals (including hydronium and muonium)
2.2.5 Quasiparticles (including excitons) *
2.2.6 Defects and impurities
2.2.7 Ions and charge carriers *

* Denotes subjects covered in this volume

3 PHENOMENA

3.1 Molecular structure *
3.2 Vibrations and rotations of molecules *
3.3 Electronic structure and states *
3.4 Electric and magnetic properties *
3.5 Spin splittings *
3.6 Optical activity
3.7 Molecular interactions *
3.8 Spectral bandshapes and intensities *
3.9 Coupling of electronic and nuclear motion
3.10 Energy transfer processes *
3.11 Molecular photophysical processes *
3.12 Intramolecular dynamics *
3.12.1 radiationless transitions
3.12.2 vibrational energy redistribution (including vibrational dissociation)
3.13 Luminescence spectra, yields and lifetimes *
3.14 Coherence loss processes *
3.15 Non-linear responses (including optical) *
3.16 Multiphoton phenomena
3.17 Reactions (including dissociation) *
3.17.1 gas phase *
3.17.2 condensed phase *
3.17.3 photochemical *
3.18 Tunnelling
3.19 Electron transfer *
3.20 Positron annihilation
3.21 Ionization (including Rydberg states) *
3.22 Molecular motion (including diffusive)
3.23 Isotopic effects
3.24 Fluctuations and noise
3.25 Collective motion and excitations
3.26 Surface effects and catalysis *
3.27 Thermodynamic and transport properties *
3.28 Structure of solids and liquids
3.29 Critical phenomena
3.30 Phase transitions

SUBJECT INDEX TO VOLUME 133

METHODS

Theoretical

Many body and quasiparticle approaches

Coupling schemes and perturbative treatments

Relativistic quantum mechanics

Statistical mechanics of stationary states

Ab initio schemes for stationary properties

Experimental